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# WASHRAG



VOLUME 21 Issue 05  
MAY 2019



Wireless Association of South Hills

N3SH WA3SH NP2SH/B

[www.n3sh.org](http://www.n3sh.org) [www.washarc.org](http://www.washarc.org)





# Wireless Association of South Hills



## WASHRAG™



VOLUME 21 ISSUE 05

MAY 2019

### Next Monthly Meeting: Thursday, May 2<sup>nd</sup>, 2019

The next meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, May 2<sup>nd</sup> 2019**, in the Conference Room at the **St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park, by South Hills Village & Village Square** (map on the back page). The room is available at 6:30 PM. The meeting will be starting at 7:00 PM.

Subjects for the meeting include the Pittsburgh Marathon, Hamvention, Breezeshooters, Field Day 2019, , and upcoming plans for 2019.

See you there!

Cover Photos: *The WASH Club Table at the 2019 Two Rivers ARC Hamfest*

Cover Photos courtesy of & © Copyright 2019 Ron Notarius W3WN

## WASH 2019 OFFICERS

### EXECUTIVE COMMITTEE:

President	Tony Romano KB3BYA
VP / Secretary	Dan Campbell K3CMU
VP / Treasurer	Mark Stabryla N3RDV

### AND WE COULDN'T DO IT WITHOUT:

N3SH Trustee	Larry Comden K3VX
WA3SH Trustee	Rich Danko N3SBF
NP2SH Trustee	Paul Jordan NP2JF
N3SH WA3SH NP2SH/B QSL Manager	Ron Notarius W3WN
NP2SH 2009 QSL Manager	Carl Schroeder K9CS
VE Team Liaison	Ron Notarius W3WN
Webmaster	Curtis Turner KB3CMT
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Chuck Bihun KC3ELA
WASHFest 2020 Committee	Carol Danko KB3GMN, Chairman
	Bill Hill W3WH, Co-Chair
Activities & Operating Events	Rick Bell KB3IAC
Ways & Means	Carol Danko KB3GMN
WASH 2M Contest Chair	Chuck Bihun KC3ELA
Field Day 2019 Coordinators	Rick Bell KB3IAC
	Bill Hill W3WH

### CLUB-AFFILIATED REPEATERS, BEACONS, & DIGIPEATERS:

Mt. Lebanon	N3SH / R	146.955 MHz (-)	PL 131.8
North Side	N3SH / R	442.550 MHz (+)	PL 131.8
Canonsburg	N3FB / R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH / B	28.276 MHz	Propagation Beacon
Canonsburg	N3SH	144.390 MHz	APRS Digipeater

**N3SH / WA3SH WASHNet**, the weekly on-air net of WASH, meets every

**Monday** Night, 8:00 PM ET, on the 146.955 & 443.650 repeaters.

All radio amateurs, WASH members or not, are welcome to join in!

## THE LEGAL STUFF

"The WASHRag™" (formerly "The Mariner™") is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)**, a 501.C.3 not for profit organization.

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Editor & Publisher: Ron Notarius W3WN

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23<sup>rd</sup>, 1993, as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, it's members, or it's actions in any way, shape, or form.

As always, special thanks to the owners & operators of both the N3SH/R Repeaters and the N3FB/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and it's members to use their repeaters for club purposes.

## WASH Amateur Radio Club News Briefs

### Next WASH VE Test July 18<sup>th</sup>

The Next WASH VE exam sessions will be **Thursday, July 18<sup>th</sup>, 2019**, 7:00 PM, at the **WPXI Community Room**, 4145 Evergreen Road, Pittsburgh, PA 15214. Talk-in on the 146.955 MHz and 443.650 MHz repeaters. All examiners are ARRL VEC affiliated.

#### Pre-registration is not required. Walk-ins welcome!

But if you plan on attending the test session, please contact VE Team Liason Ron Notarius W3WN:

Telephone (412) 572-6723 or E-Mail: [w3wn at n3sh dot org](mailto:w3wn@n3sh.net)

Please bring the following to your test session:

Picture ID or other suitable identification (2 forms of ID required)

Pen / Pencil / Calculator

Original FCC license plus a copy of license (if upgrading)

Original CSCE plus a copy of CSCE (if upgrading)

Check or Cash in the amount of **\$15.00** (payable to: ARRL VEC)

Future test dates:   October 17<sup>th</sup>, 2019  
                              February 23<sup>rd</sup>, 2020

### Tony's Musings

Well this year is really moving fast!

And I have one word.. Field Day... Field Day...Field Day... or is that 2 words, or six? Well anyway, last year was a great success, we beat our nearest competitor by 600 Q'S in the 4A class in the Atlantic Division; this year will be even better!

It will be at Babcock Grove In South Park again. And this year we hope to have some Boy Scouts.. and a GOTA station... so be at the May meeting and we can discuss our plans.

Thanks Bill W3WH and Larry K3VX for spearheading Field Day!

— 73, Tony Romano KB3BYA  
President, Wireless Association of South Hills, Inc.  
N3SH / WA3SH / NP2SH/b



Bill Hill W3WH has told us that our 1x1 call request for Field Day 2019 has been approved.

The club will be using W3C this year.

We have a special call in mind for the 2019 Field Day GOTA station as well... to be discussed in more detail at the May club meeting

Is it Spring already? Seemed so, as a beautiful April morning greeted the **WASH Breakfast Gang** this month, at **Eat 'N Park**, 3380 Washington Road (US 19) in McMurray. This month's group consisted of WB4GCS, his brother in law Tom & nephew Ryan, N3IDH, N3FB, KB3GMU, KC4WTT, KB3BYA & Amy, and W3WN. Morning topics covered Pitt & Point Park graduation ceremonies at the Paint Can today, "has it been four years already?" (yes, it has), upcoming surgery, new jobs, making/not making Dayton 2019, "making a mutual decision", Parkway traffic, "just became a grandpa for the first time", (not very) fondly remembering 3 Rivers Stadium and the other 'cigarette bowls', placing video cameras to record the demolition, remembering Suzie B's and Bob's Diner, going to Alaska, TripTiks to Vermont, the "not so frozen" tundra growing up in Minnesota, blamed for owning a bug zapper, basketball tournaments and Zebra sightings... and much, much more.

Our next gathering of the Gang will be on Saturday, May 25<sup>th</sup>, returning to the **Eat 'N Park**, 3380 Washington Road (US 19) in McMurray (the "new" restaurant that was recently built), officially starting at **8:00 AM**. While we don't need a "head count" to reserve tables as we've previously done, **please** let Jim WB4GCS know ahead of time if you are planning on coming... if you don't, though and decide at the last minute, we'll have plenty of room for you! See you there?

**In case you were wondering** why we have a story on Page 6 this month from K8OVP in the depths of Ohio... there's a reason. As alluded to above, Little Miss Field Day just graduated from Point Park University with a Bachelor's in Fine Arts in Scenic Design. (Anyone hiring?) Her roommate for the last 3 years is from Columbus, and HER grandfather, who we finally met post-ceremony, is K8OVP. (And see what happens when you DON'T submit an article?) By the way, both YL's have expressed interest in getting their tickets, though of course, they concentrated on completing their course work first!

...and we've warned you all many times before what would happen if you don't submit any articles or pictures, but at least the puppy didn't graduate from school this month...

**Got Baofeng?** Glen KE7FD has offered to bring his programming cable and laptop to this month's meeting, to aid anyone who needs assistance in programming their rig. If you have any questions on the specifics, please email Glen prior to the meeting.

**Going to Hamvention?** Some family circumstances may be forcing Ye Editor to miss Hamvention for the first time in many years. So we would appreciate a short article or two, and definitely pictures from the event – the crowd, the exhibits, the flea market... let's hope they have the mud situation under control this year...

The **Breezeshooter's Hamfest** will be coming up next month. Plans are to have our traditional club picnic there on Sunday. More information in the June newsletter.

Larry K3VX reminds us that if you're looking for a cabin to operate from that has very little RFI, the **US Forest Service has cabins and Fire Towers** for rent! They may be a little on the remote side, though. See this link for rules and availability [https://www.fs.usda.gov/detail/r1/recreation/?cid=fsps5\\_030855](https://www.fs.usda.gov/detail/r1/recreation/?cid=fsps5_030855)

**Changes are coming** to the **WACOM Hamfest** in November. See the short article on Page 10.

"In the Spring, a young man's fancy lightly turns to thoughts of love" (Alfred Lord Tennyson). **But as far as us old fogeys go**, antennas seem to be of greater interest to us this time of year. Let's be careful out there, on those rooftops, and around wires — **Glen Roberts KE7FD**

**Got any plans for the 2019 Pennsylvania QSO Party?**



What's on their caps? Don't ask.

**Join WASH or Renew your Membership Today! Membership Application on Page 13**



## Minutes, April 4<sup>th</sup> Meeting

Dan Campbell K3CMU, Vice President/Secretary, **WASH**

Call to Order: 19:24 hours; Presiding Officer: Tony Romano (KB3BYA)

Pledge of Allegiance Moment of Silence (REMEMBERING Silent Keys & Others)

Number of Members Present: 17; Numbers of Guests: 1;

Introductions: Guest(s) Name(s): Jeff Hutzelman (N3NHS) Pittsburgh Marathon – Amateur Radio Volunteer Coordinator

### COMMITTEE REPORTS

Treasurer: Mark Stabryla (N3RDV): Current month balances announced.

Motion to Accept: Rich N3SBF, Second by Ron W3WN. Passed: Yes.

Secretary: Dan Campbell (K3CMU)

Are there any corrections to the Minutes: NO

Motion to Accept By: Carol KB3GMN; Seconded by: Glen KE7FD; Passed: Yes

Correspondence: None

Repeaters: Frank Bobro (N3FB), Issues?: No

WASHNet: Charles (Chuck) Bihun, III (K3CELA): 'running well'

Contests: Larry Comden (K3VX): Field Day 2019 covered under Old Business.

Public Service: Mike (WA3PYA): Upcoming "Race for the Cure" in May

Newsletter: Ron Notarius W3WN:

unable to print copies of the newsletter for the foreseeable future

requested more photos especially at public service events

Volunteer Examiners: Ron Notarius (W3WN):

The usual April session was not scheduled; should be back on a regular schedule in July

Ways & Means: Carol Danko (KB3GMN):

Membership Contributions: (KB3GMN):

Hamfest food revenues announced.

ARRL Insurance Premium Due:

Pizza expense reimbursement due

President's Report: None

Old Business:

Larry (K3VX): Field Day 2019: Antenna configuration not optimal due to location of trees, proposed several alternatives: poles, ladders. Jim and Dan offered the use of their ladders.

Club Won Atlantic Division w/ 1,500 contacts

Tony (KB3BYA) & Bill (W3WH): Demonstration for Boy Scouts in May

Glen (KE7FD): wants to do another test on generators using same loads as previously

New Business:

Jeff Hutzelman (N3NHS) (spoke before the meeting was called to order): Pittsburgh Marathon Communications, Sunday May 5<sup>th</sup>, 2019; need 100 Ham Operators; packet will be sent to volunteers, currently have 1/2 to 2/3 of needed volunteer cadre

Bob (NU3Q): (new station manager): needs fixed position volunteers and shadows for "Race for the Cure"; contact at 412-736-7385

Bill (W3WH): Paucity of CW activity suggests we trend toward digital

Curtis (KB3CMT): Receiving communications from May 13<sup>th</sup> or 20<sup>th</sup>

Tony (KB3BYA): suggested we invite Boy Scouts to Field Day and give them hands on experience.

Glen (KE7FD): suggested software test between FJP and FT8

Bob (NU3Q): renewed VE Certificate

Harold (K3CHR), Curtis (KB3CMT) & Richey (N3SBF) visited Steel City Hamfest; have complex site; use Remotehams.com

US Forest Service sites available for rent; closest is in WV (pretty far)

Good of the Order:

MOTION TO ADJOURN: By: Jim (N3FB) Seconded by: Mark (N3RDV)

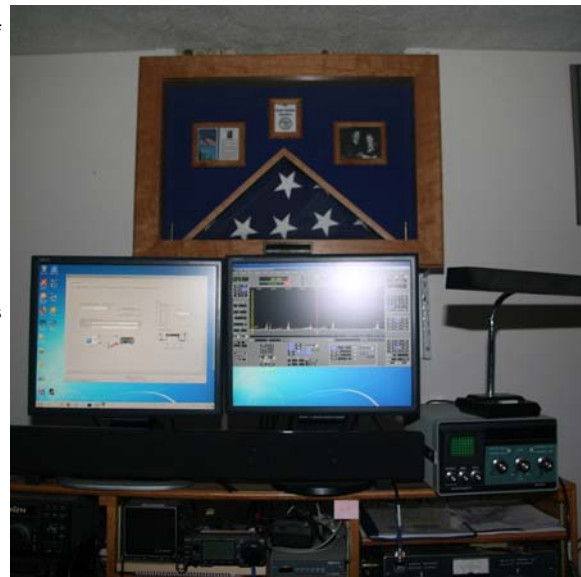
Meeting Adjourned: 20:20 hours

## WASH Spotlight: AC4KU

This is a photo of my Dad's burial flag and shadow box. At left is his prayer cards a photo of my parents the night they were engaged. At the center is his Pearl Harbor Survivors badge. The shell casings are from the honor guard.

My High Performance Software Defined Radio display, below Dad's flag.

Dad was AC4KU; my son Chris now holds



that callsign."

Photo courtesy of and © Copyright 2019 Jim Sanford WB4GCS

Every month we're going to feature a **WASH** club member, something about them, something they're involved in or a club-related activity that we're involved in, in the **WASH Spotlight**. Submissions for the Spotlight should be sent to Ron W3WN at [newsletter at n3sh dot org](mailto:newsletter@n3sh.org)

## Monthly WASH Breakfast



Please join us for the next **WASH** Breakfast! We usually get together on the LAST Saturday of every month for a chance to informally sit down, shoot the breeze, compare notes, drink lots of coffee, and just have a good time!

Join us this month at **Eat'n Park**, 3380 Washington Road (US 19), McMurray. Start time is about 8 AM until ????. Monitor 146.955 & 443.659 for talk-in or any last minute changes.

All are welcome, **WASH** members or not, amateurs or not!

## Wireless Association of South Hills Membership

AA3GM  
AB3NM  
K3CMU  
K3GWR  
K3HCR  
K6DWR  
KA3VXM  
KB3BYA  
KB3CMT  
KB3DCO  
KB3GMN  
KB3GMU  
KB3IAC

KB3IVX  
KB3JHR  
KB3ORO  
KB3YCX  
KC3ELA  
KC3GMM  
KC3MLC  
KC4WTT  
KE7FD  
N3DFK  
N3FB  
N3KFD  
N3RDG

N3RDV  
N3SBF  
N3ZK  
NU3Q  
W3LE  
W3WH  
W3WN  
WA3PYU  
WA3VSS  
WB4GCS

WASH FL  
KA3UPY/M  
W4ZE  
WASH NE  
N0PEU  
W3LE  
WASH OR  
KB3NVL  
KB3NVM  
WASH OH  
N8DPW

WASH TN  
K3OL  
KE3XB  
N3YPB  
WASH TX  
NB3C  
K3LGM  
KB3IJX  
Jane Wagner  
WASH VI  
NP2JF

### Silent Keys

AB3KA  
K3EED  
K3LIE  
KA3NMG  
KB3ENX  
KB3FNM  
KB3FQT  
KB3JHQ  
N3CZZ  
N3FZ  
N3HKQ  
N3KEH  
N3OBD  
N3RNX  
N3SKR  
N3SRC  
N3ZEL  
N3XFE  
W3ZLK  
WA3JPP

*If your call should be listed here & isn't, please contact Mark N3RDV*

Through April 29<sup>th</sup>, 2019  
List compiled by  
Mark Stabryla N3RDV, Vice President/Treasurer

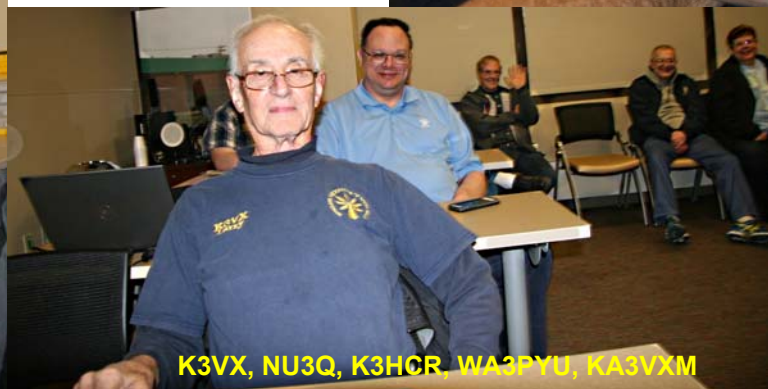
# 2019 WASH Upcoming Events Calendar

*Club Meetings & Other Significant Events — Subject to Change*

May 2 <sup>nd</sup>	<i>WASH</i> Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
May 5 <sup>th</sup>	The Pittsburgh Marathon	<a href="https://thepittsburghmarathon.com">https://thepittsburghmarathon.com</a>
May 11 <sup>th</sup>	68 <sup>th</sup> Annual Armed Forces Day	<a href="http://www.usarmymars.org/events/armed-forces-day">http://www.usarmymars.org/events/armed-forces-day</a>
May 12 <sup>th</sup>	Race for the Cure	<a href="#">Flagstaff Hill, Schenley Park</a>
May 17 <sup>th</sup> — 19 <sup>th</sup>	DARA Hamvention	Greene County Fairgrounds & Expo Center, <a href="#">Xenia, OH</a>
May 25 <sup>th</sup> — 26 <sup>th</sup>	CQ WPX Contest CW	<a href="http://www.cqwpix.com">http://www.cqwpix.com</a>
June 1 <sup>st</sup> — 2 <sup>nd</sup>	Breezeshooter's Hamfest	<a href="http://www.breezeshooters.org">http://www.breezeshooters.org</a>
June 6 <sup>th</sup>	<i>WASH</i> Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
June 8 <sup>th</sup> — 10 <sup>th</sup>	ARRL June VHF Contest	<a href="http://www.arrl.org">http://www.arrl.org</a>
June 15 <sup>th</sup>	ARRL Kid's Day	<a href="http://www.arrl.org">http://www.arrl.org</a>
June 22 <sup>nd</sup> — 23 <sup>rd</sup>	ARRL Field Day	<a href="http://www.arrl.org">http://www.arrl.org</a>
July 4 <sup>th</sup>	<i>WASH</i> Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
July 18 <sup>th</sup>	<i>WASH</i> VE Exams	WPXI Community Room, 4145 Evergreen Road, Pittsburgh PA
July 20 <sup>th</sup> — 21 <sup>st</sup>	PVGP Schenley Park	<a href="https://www.pvgp.org">https://www.pvgp.org</a>
August 1 <sup>st</sup>	<i>WASH</i> Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
September 5 <sup>th</sup>	<i>WASH</i> Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
September 8 <sup>th</sup>	Butler Co ARA Swapfest	<a href="#">Unionville Fire Hall, Butler PA</a>
October 3 <sup>rd</sup>	<i>WASH</i> Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
October 12 <sup>th</sup> – 13 <sup>th</sup>	63 <sup>rd</sup> Pennsylvania QSO Party	<a href="https://www.pagso.org">https://www.pagso.org</a>
October 17 <sup>th</sup>	<i>WASH</i> VE Exams	WPXI Community Room, 4145

***"Seen" at the April Meeting***

Photos Courtesy of and © Copyright 2019 Jim Sanford WB4GCS

**N3RDV, KB3BYA, K3CMU****N3NHS****W3WN****WA3PYU, KA3VXM, KB3GMU, WA3VSS, KE7FD****K3VX, NU3Q, K3HCR, WA3PYU, KA3VXM*****Memories of 9DHB/W8YJD***

Frank Huffman K8OVP

Columbus, OH, April 29<sup>th</sup>, 2019 – My Dad, Ed Huffman, started out with the call sign 9DHB before they had a country prefix of W. He worked his way through college as a broadcast transmitter operator at WBAA (Purdue University), and throwing sparks on Great Lakes ships. Some of his transmitters had been spark transmitters, upgraded by adding tubes and keeping the output circuits, antennas etc. After several months of maritime service as a Sparks he qualified to take the test for First Radiotelegraph required to be a Chief Radio Officer. After moving to Akron OH he became W8YJD, now SK.

This is his photo, probably with the 9YB (now W9YB) club at Purdue in the early 1930's. The power may have come from the car but with the antennas then it certainly was portable. The Operator is in the back seat, and not able to be operated while in motion.

Driving through Akron to a job interview, the Motorola brand car radio blew. He saw a radio store and asked for a few parts to fix the radio.

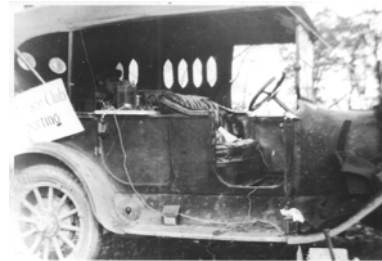
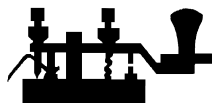
He was asked if he could transmit and showed them his 1<sup>st</sup> Radiotelegraph license. He was sidetracked to Firestone that was tired of taking 5 weeks for a round trip message to Liberia where they purchased all of their raw material and hired to found the US - Liberia Radio Corporation, a common carrier like Western Union that used CW.

Stray - Another early radio club 9ZN started selling parts hams needed to build spark transmitters. They became so popular they started a company to make all sorts of radio equipment with a name that sounds like the call sign pronounced. What is the company? (The "gang from Z N" became Zenith Radio).

I have to work on my nametag. I just got a pin for 60 years as an ARRL member. And I can't get any of the family member, except my Cousin N8SEY, interested. (Editor's Note: Your Granddaughter was interested!)

Rick NV5A ([Rick@TheSignman.com](mailto:Rick@TheSignman.com) or [WWW.TheSignman.com](http://WWW.TheSignman.com)) made the nametag. They are available with either a magnet or pin, the pin is a little weak and can be bumped off. Bend the pin end up so it will be harder to unpin.

I will glue it to my pocket protector when I finish my new one.

**Silent Keys**

Thelma Desmond DeRose, 90, Washington, mother of Kevin DeRose N3KFD, April 21<sup>st</sup>





## What A Privilege... Bill Hill W3WH

Chartiers Township, PA, April 23<sup>rd</sup>, 2019 -- What a privilege it is to belong to the fraternity of Ham Radio.

I used the term "fraternity" not to exclude the female gender but because I can't think of another that adequately captures the brotherhood of our beloved hobby. As has been said innumerable times, there is something in Ham Radio for everyone. Rag chewing, chasing DX, experimenting, building equipment, playing with antennas, CW, SSB AM Digital modes, new equipment, boat anchors, etc. Well you get my drift, our Hobby is almost unbelievably varied.

However the most precious aspects of the privilege I believe are the extraordinary caliber of the people you meet along the way in your Ham journey. Not only are so many very smart but virtually all of those we encounter are willing to share their talents with everyone.

The other day this occurred to me when Glen KE7FD who lives in Clairton was willing to drive to my QTH and program my dual band HT which I stupidly erased all the memories. OUCH! What a wonderful favor he did for me. It's even better because he brought along his dog "Cujo" I can't possibly think of all the people who are, mostly in our Club, who continually help me solve a problem of one sort or another. I know for a fact that until it hit me the other day, that I didn't appreciate the number and significance of all the acts of kindness that I have been privileged to receive.

I won't try to name any more individuals but you all know who you are and to everyone I say THANK YOU!!! and I hope I can return some of the favors some day soon.

To be a Ham is such a wonderful gift and privilege and I hope we can all realize and appreciate our good fortune.



## The Latest Adventures of Carl & Quinn

For his own protection, the author has been placed in the Federal Witless Protection Program

*(Editorial note: Consider the history of scientific learning, knowledge and achievements. Few discoveries may never eclipse the awe of that which has been revealed recently, that of the first ever image of a black hole. Einstein's theory of general relativity has been observed and verified in the cosmos on a grand scale. Using the "Event Horizon Telescope" which are a series of radio telescopes positioned around the world, one of which is located outside of Westford, MA, observed activity at the center of the galaxy M87, then compiled mountains of data into what scientists later announced is nearly a straight-on view of the massive galaxy, some 53 million light-years from Earth. This image of a black hole may be the single most important development in the scientific community since the atomic age began.*

*(A review of this information was necessary before relating the following story...)*

**I**t had been a long cold winter this year, and like bears emerging from their dens after the sleep has worn off, Carl and Quinn were eager to get busy on something new.

"Hey Carl, have you got that transmitter going yet?", barked Quinn on their 440 simplex QSO.

"Almost. Don't get your Depends in a wad. The crystal controlled frequency multiplying oscillator you got off of eBay keeps shifting somewhere out of band. These SMD caps you bought aren't exactly top of the line either."

Their project under construction was an ATV transmitter capable of steaming a looped image stored on a small memory card. The boys had chosen to transmit a picture of their callsigns being painted onto a donut. The transmitter would then be set aloft with a GPS tracker, the payload aboard a helium weather balloon.

The theory was once the balloon reached apogee, it would burst, the payload would then parachute back to the ground where it would be recovered.

After Carl fixed some solder pads which kept lifting off the board, the transmitter was finally finished. They, having learned many lessons from a previous failed balloon launch years earlier, our boys gathered everything up and set out for the launch site at Mingo Creek Park. The observatory at the top of the hill was unoccupied today, being daylight so they had the hilltop to themselves. After some setup time to switch on the transmitter, check its signal, attach it to the recovery system, and inflate the weather balloon, they were ready.

Quinn was holding onto the package, while Carl played out some of the tether to the balloon.

"Quinn, are you ready? I'm about to release the balloon!" Carl shouted.

"Let it go!" replied Quinn.

Off it went, shooting up even faster than they expected it to. It gracefully leaned with the breeze as it rose. They could hear the hum of the receiver collecting the data from the ATV image, completing, pausing then repeating. Everything was going perfectly. Had they finally broken the curse of so many failed projects of the past, Carl wondered to himself. As he wheeled about to monitor the telemetry from the now impossible to see balloon, he caught a glimpse of something in Quinn's right hand.

"Quinn! What's that in your hand? Carl barked startling Quinn.

"Ahh, oh geez. It's the styrofoam panel from the bottom of the package! It must not have been fastened tight. What are we going to do?", Quinn replied in horror.

The styrofoam panel Quinn held in his hand served three purposes. It would help maintain a warmer temperature inside the styrofoam package, there was a small counterweight included to keep the package upright at all times and the GPS module was attached there. Without the insulation, the temperature inside the package could plummet to minus 130° F, not to mention that the balloon might reach altitudes of stratospheric jet streams which might carry it in totally different directions.

They watched the telemetry come in, which now only consisted of their callsigns being superimposed on a donut. No location, no altitude, no temperature and no way to track the package. It was as the movie title read, "Gone With The Wind". They looked at each other as the telemetry faded away, with Carl making a very optimistic comment: "It'll probably fall into the ocean".

Quinn paused then said, "You hungry? I'm hungry. Let's go get something to eat." And with that, the boys packed up and headed off to Eat'n Park.

As it turned out, the package did not land in the ocean as they had hoped. It instead took a different course than what they intended. With the insulating panel missing, the sub-zero temperatures caused solder pads to lift off of the board shifting the transmission frequency of the image being sent.

When the balloon burst in the stratosphere, the package came down gently underneath its parachute and landed in the tops of the trees not too far from the receiving dish at a certain observatory outside of Westford, MA,. The logo continued to transmit albeit outside of the Amateur bands. The signal was received nevertheless. It was mistakenly incorporated as part of the now famous, somewhat circular image of the M87 black hole, and a sprinkled donut.



# ***"Seen" At the 2019 Two Rivers ARC Hamfest***

Photos courtesy of and © Copyright 2019 Ron Notarius W3WN





# Annual Armed Forces Day Crossband Test Set for May 11<sup>th</sup>

American Radio Relay League

Newington, CT, April 29<sup>th</sup>, 2019 –The Army Military Auxiliary Radio System (MARS) will host the traditional military/Amateur Radio communication tests to mark the 68th annual Armed Forces Day (AFD) on Saturday, May 11. The event is open to all radio amateurs. Armed Forces Day is May 18, but the AFD Crossband Military-Amateur Radio event traditionally takes place 1 week earlier in order to avoid conflicting with Hamvention®. Complete information, including military stations, modes, and frequencies, is [available](#) on the US Army MARS website.

“For more than 50 years, military and amateur stations have taken part in this event, which is only an exercise scenario, designed to include hobbyist and government radio operators alike,” the event announcement said. “The AFD Crossband Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service, as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly-controlled exercise scenario that does not impact any public or private communications.”

During the event, military stations in various locations will transmit on selected military frequencies and announce the specific ham frequencies they are monitoring.

Military stations expected to be on the air for the event include those in Arizona, Japan, Hawaii, Okinawa, Washington, DC (and elsewhere in the contiguous states), the USS *Midway*, the USS *Yorktown*, the USS *Iowa*, LST-325, the US Naval Academy in Annapolis, and the Newport Naval Radio Station Museum in Rhode Island. The MARSCOMM and MARS RADIO nationwide networks will have multiple stations on the air across the continental US.

An AFD message will be transmitted utilizing the Military Standard (MIL-STD) serial PSK waveform (M110) followed by MIL-STD Wide Shift FSK (850 Hz RTTY), as described in MIL-STD 188-110A/B. [Technical information](#) is available. The AFD message will also be sent in CW and RTTY, as indicated on the [full schedule](#). Anyone wanting a QSL should complete the [request form](#) on the MARS website



## New Contest-Friendly FT4 Digital Protocol to Debut

American Radio Relay League

Newington, CT, April 22<sup>nd</sup>, 2019 – A new, speedier, more contest-friendly digital mode is just days away, initially in beta form. [WSJT-X](#) developers say serious work on the new FT4 protocol began shortly after the FT8 Roundup held last December 1<sup>st</sup> – 2<sup>nd</sup>. The goal was a mode that could compete with RTTY contesting in terms of contact rates, while preserving many of the benefits of FT8.

“Over the past month a small group of volunteers have been conducting on-the-air tests of FT4,” the [WSJT-X](#) Development Group — Joe Taylor K1JT, Steve Franke K9AN, and Bill Somerville G4WJ — announced this week. “The early tests were very successful and helped us to make a number of important design decisions. We believe FT4 has considerable promise for its intended purpose.”

The developers say FT-4 soon will be ready for testing by a larger group and they’re seeking interested participants who can offer their “considered feedback.” They suggest reading [The FT4 Protocol for Digital Contesting](#) first. A general release of the [WSJT-X](#) suite that includes FT4 is anticipated in July.

According to the document FT4 is an experimental digital mode designed specifically for radio contesting that — like FT8 — uses fixed-length transmissions, structured messages with formats optimized for minimal contacts, and strong forward-error correction. Transmit-receive sequences are 6 seconds, making it 2.5 times faster than FT8 and about the same speed as conventional RTTY for radio contesting. FT4 can work with signals 10 dB weaker what would be required to decode RTTY while using much less bandwidth.

Transmissions last for 4.48 seconds, compared to 12.64 seconds for FT8. Modulation uses four-tone frequency-shift keying at approximately 23.4 baud, with tones separated by the baud rate. The occupied bandwidth is 90 Hz.

“We plan to post downloadable installation packages for [WSJT-X](#) version 2.1.0-rc5 on Monday, April 29<sup>th</sup>,” the Development Group said. [The FT4 Protocol for Digital Contesting](#) document includes:

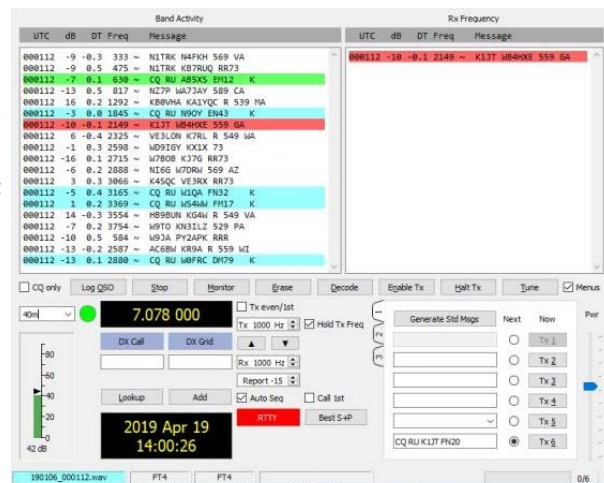
- Instructions for installing [WSJT-X](#) 2.1.0-rc5 and configuring FT4.
- FT4 operating instructions.
- A basic description of the FT4 protocol, modulation, and waveform.
- Detailed sensitivity measurements for FT4 under a wide variety of simulated propagation conditions.

“A few parameters and operating behaviors of FT4 are still being tested and optimized,” the initial FT4 guide says. “It will be very useful to hold several more mock contest practice sessions, with a larger group of active participants.”

Even if these practice sessions reveal no serious bugs or inadequacies, the [WSJT-X](#) Development Group believes FT4 is still too new to be used in the ARRL VHF Contest (June 8<sup>th</sup> – 10<sup>th</sup>) and ARRL Field Day (June 22<sup>nd</sup> – 23<sup>rd</sup>). For that reason, release candidate [WSJT-X](#) 2.1.0-rc5 will “time out” on June 7<sup>th</sup>.

Here is the proposed schedule related to the FT4 beta version rollout.

- April 29<sup>th</sup>: Second announcement, with links to downloadable installation packages for [WSJT-X](#) 2.1.0-rc5
- May 9<sup>th</sup>, 0000 – 0100 UTC: FT4 practice session, 7.090 MHz
- May 14<sup>th</sup>, 0000 – 0100 UTC: FT4 practice session, 7.090 MHz
- June 5<sup>th</sup>, 0000 – 0100 UTC: FT4 practice session, 7.090 MHz (if needed)
- July 15<sup>th</sup>: General Availability (GA) release of [WSJT-X](#) 2.1.0.



# South Orkney 2020

Perseverance DX Group

Press Release #2, April 28<sup>th</sup>, 2019 – We appreciate the **Northern California DX Foundation's (NCDXF)** significant grant of **\$30,000(USD)** to our project. Their generous grant will help cover the estimated project cost of \$325,000(USD).

DXpeditions to Antarctica require severe weather tents. We recently purchased suitable tents from other DXpedition teams and will consolidate them and other equipment in California.

Our fundraising drive began in mid-March. In just a short time we've received donations from 19 clubs/foundations and over 130 individuals. We look forward to receiving support from the global DX community. Donations may be made via the website or by contacting us at: [info@sorkney.com](mailto:info@sorkney.com)

Press Release #1, March 13<sup>th</sup>, 2019 – The **Perseverance DX Group (pdxg.net)** is pleased to announce their intention to activate **South Orkney Islands (AN-008)**, currently **Clublog #16** most wanted.

Planning has begun for an expedition in Feb/Mar, 2020. A team of experienced DX and Contest operators will operate from Signy Island for up to 15 days. The process of obtaining landing permission is underway. The call sign will be announced at a later date. The team will sail from Punta Arenas, Chile aboard **RV Braveheart**. Seven operating positions are planned for 160-10 meters, SSB/CW/Digital.

More information at <https://sorkney.com/>

Please direct your questions to: [info@sorkney.com](mailto:info@sorkney.com)



Signy Island

## WACOM Hamfest Changes

Tom Wright KC3TOM

Bud (N3TIR) and Norma (N3YJJ) have decided to take a break after many successful years of HamFest organizing. We thank them for their years of service. I have stepped up to help with organizing this years event.

We hope you will join us for another successful year.

Unfortunately, we were unable to reach an agreement with the Printscape Arena, the site of the 2018 HamFest. So, we are back at our original location for the foreseeable future: Washington County Fair Grounds: 2151 North Main Street, Washington, PA 15301

Prices will once again remain unchanged - 1-4 tables \$12 each and 5 or more tables \$10 each. Cost of tables doesn't include admission, which remains at \$5.00

— 73, Tom Wright KC3TOM (412) 414-5627



**Hamvention®** has announced that it will open the gates to all, without charge, on the final day of the annual gathering at Greene County Fairgrounds and Expo Center in Xenia, Ohio. Hamvention 2019 General Chair Jack Gerbs WB8SCT said the idea is to encourage the curious to see what attracts some 30,000 visitors to Hamvention each spring.

"We have decided to open the doors to Hamvention to the public on Sunday, May 19<sup>th</sup>, without buying a ticket," Gerbs said. "This will make it a little easier and cheaper for someone with just a little interest in Hamvention to see what all the excitement is about."

In addition to the features and equipment that attract radio amateurs, non-ham visitors will get to see vendors selling a variety of other electronic equipment, including computers and accessories, security devices, networking supplies, tools and other items of interest to the general public. Those visiting the flea market area may be surprised at what's available, often at a small fraction of its original cost.

Gerbs pointed out that Sunday is Hamvention's lightest traffic day, making it convenient for anyone who just wants check out what's there. Many vendors offer last-minute specials on a variety of items. The many food trucks offer a wide selection of menus, providing attendees with an opening to make Hamvention 2019 a family outing.

Hamvention will be open on Sunday from 9 AM until 1 PM. On Friday and Saturday, the gates will be open from 9 AM until 5 PM.

## DX News Briefs



**ARRL Outgoing QSL Bureau Rates** have been rolled back to 2011 levels effective 15 May. 10 or fewer cards in one envelope will be \$2, 11 – 20 cards \$3, and \$.75 per ounce for packages with 21 or more cards. There will be no transaction fees. Packages received prior to 15 May will be charged at the current rates. More information at <http://www.arrl.org/Outgoing-QSL-Service>

**3Y0I:** "The entire 3Y0I Bouvet Team is home and all are resting after the Rebel attempt at Bouvet. 70 miles! 70 miles, 10 hours is all we needed and we possibly could have sheltered on the west side of Bouvet from the storm that wreaked havoc! Our license is renewed, our equipment stored in Cape Town (thank you fellow Rebels), and we're already making plans for Bouvet in the Fall! In the meantime, where will the Rebels show up next?"

MMØNDX and MMØOKG have cancelled the **J20DX** trip due to issues with their equipment not being released by Customs, as their National Security documentation was unsigned even though their call had been issued. More information at <https://j20dx.com>

Multiple stations are QRV from Israel during the 64<sup>th</sup> Eurovision Song Contest through 18 May, including **4X64G**, **4X64N**, **4X64O**, **4X64S**, and **4X64EURO**. More information at <https://www.iarc.org/livelog>.

**8J1ITU** will be QRV during all of May to celebrate the anniversary of the founding of the ITU. QSL via the JARL

EP3CQ is QRV as **6O100** through 15 May, in his spare tie. QSL via his Berlin address

**LX8SAR** will be QRV during the SAARLORLUX Friendship Meeting 2019 10 – 12 May. QSL via the RL Bureau

HA7HTR will be QRV as **S79HA** from AF-024 22 – 29 May, holiday style 160 – 17 with focus on the low bands. QSL via HA7JTR

GØVJG, will be QRV as **3D2AS** from Fiji 3 – 8 May and 20 – 22 May. He will also be QRV as FW/GØVJG from Wallis Island (OC-054) 8-22 May. Dates could change. Activity from the islands will be on 60/40/30/20/17/15/12/10/6 SSB and FT8. QSL via MØOXO

JA1XGI will be QRV as **V6K** from OC-059 Kosrae Island 17 -24 June. More information at <http://v6k.client.jp> QSL via JA1XGI

**FO/W6NV** will be QRV from 18 -31 July. QSL via W6NV

Members of the Russian Robinson Club are planning to be QRV as **KL7RRC/p** from Sledge Island NA-210 25 August – 3 September, pending permissions from the USFWS and USCG. QSL via N7RO

DDØVR & DE3BWR will be QRV as **3D2VR** 2 – 9 September & 23 – 27 September, **5WØVR** 9 – 16 September, and **A35JY** 16 – 21 September

**A82X** will be QRV 28 September – 11 October. **A82Z** will be used on digital modes. More information at <http://www.i2ysb.com/idx>

**6W1RY** will be QRV during the CQWW DX Contest 26 – 27 October. US Stations QSL via WA6WPG

## QSL Routes

4E8T via MØOXO	EG1PEA via EA1RKA	I12OM via IK2AQZ
5PØWARD via OZ1ACB	EG1CP via EA1RCI	IØ5CNPP via IZ5RHU
9M6ZAE via W3HNC	EH5TYF via EA5RKB	J42L via SV2DCD
A6ØWARD via A61BK	EH7SCB via EA7URM	OE19M via OE1WHC
A93DX via A92AA	EIØCAR via EI4JR	OZ2SPACE via OZ1ACB
AM6ØQURP via EA6URP	EM4IFF via US5IQ	PW2F via PY2NA
AN77ØKA via EB7KA	FG8OJ via F4AVX	SN1IW via SP2PBY
DAØIMD via DL1BFE	GBØBOC via GMØOTI	SN75W via SP7IWA
DAØWF via DL2ND	GBØMGY via G6UT	ST1CA via I2YSB
DFØFML via DL2SK	GB5SM via LZ1JZ	TM19PAQ via F4HZS
DLØMFH via DM1BM	GB5ØWAB via G7GJU	TM35REF via F4KIR
DLØSHZ via DL1ASR	GS8VL via MØOXO	TM4G via ON4ZD
DQ6ØØUNI via DL5KVV	HB9O via HB9BRG	XP3A via PA3249
EA6/EI6DX via RA3R	HF1ØØL via SP8ZHY	XR2Ø1G via CE5PRD
	HG1ØWCA via HA4FY	XT2MAX via DK1MAX
	HR5/F2JD via F6AJA	Z66Z via OZ1ACB
	I1ØBIKE via 9A5URI	ZW8T via PS8HF

Thanks to the NJDXA DX News Reflector, the DX-QSL Reflector, 425 DX News, OPDX News, DX Coffee, DX World.Net, ICPO Bulletin, & ARRL DX Bulletin for our **DX News** information. Thanks also to the ARRL DXCC Desk, & Bernie McClenny W3UR /The Daily DX for confirmations & additional information.





## WASH Classifieds

Information shown here is as supplied to the **WASHRag**. Condition as stated, and all sales should be considered "as-is" unless otherwise noted. All subject to prior sale or withdrawal from sale at the owner's discretion. All responsibility for this information lies with the source and not the **WASHRag** or the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

### HAM RADIO INSURANCE ASSOCIATES, INC.

P.O. Box 201  
Canonsburg, PA 15317-0201  
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Fax: (412) 746-5944

[bill.hill@hamradioinsurance.com](mailto:bill.hill@hamradioinsurance.com)

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Antennas Rotors & Towers      Computer Media & Software  
Mechanical Breakdown & Electrical Damage Coverage

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Lazaroff & Suhr, Attorneys at Law  
277 West Main Street, Saxonburg, PA 16056  
Phone: 724-352-4905

The **WASHRag** Masthead is courtesy of Jeff Murray K1NSS, creator of DASHToons & Dash the Dog Faced Ham!!

Find the online cartoons and stories of Dash the Dogfaced Ham & more at <https://www.jeffk1nss.com> !

Shop for Dash items at his online store on Café Press, [www.cafepress.com/shopdash](http://www.cafepress.com/shopdash)



**For Sale:** MFJ 949D Deluxe VersaTuner II

Kenwood TS-520      Kenwood Remote VFO 520S  
Kenwood MC-50      Kenwood SP-430  
Kenwood Digital Display DE-5  
Kenwood TS - 520, SSB Transceiver (Qty. 2)

Contact Bill Petrie - (412) 384-4105

**For Sale:** CDE Rotor (Rotator), Rebuilt in 2018

Contact: Mauro Orsatti, 2120 S Rankintown Rd, Finleyville, PA 15332;  
(724) 348-5531

**For Sale:** From the estate of Skip Renswick K2SR:

Yaesu FTDX5000MP	Yaesu FT-991A
Yaesu FT-736R	Yaesu FL-7000 HF Linear Amplifier
Kenwood TS-2000	Kenwood TS-590
Kenwood TS-590	Kenwood TS-480SAT
ICOM IC-2410A	Tokyo Hy-Power HL-1.5 KFX
Ameritron AL-1500	Ameritron AL-80A
Ameritron AL-811	Drake 2B
Heathkit SB-220	Heathkit SB-614
Astron RS-50M	Astron RS-35M
Astron RS-35A	Astron LS-10A
Palstar HF Stepper antenna tuner AT-Auto	
Palstar HF Stepper tuning network HF-Auto	
MFJ 986 differential T Tuner	
Tektronix 1503B	
Energy Concepts 20600C high current power supply	

Prices negotiable.

Contact Leah Renswick K2LAR [renswick@gmail.com](mailto:renswick@gmail.com)

Home (716) 386-4722 Cell (716) 450-4722

K2LAR will attend the Breezeshooters Hamfest and deliver pieces of equipment but will not be bringing other pieces to sell

If you've downloaded the **WASHRag** from the N3SH web site, or picked up a copy from a friend... you can sign up to have the PDF copy sent directly to your email. You **do NOT** have to be a member of **WASH**!

Just send an email to [wa3sh-subscribe@yahooogroups.com](mailto:wa3sh-subscribe@yahooogroups.com) and the automation should take care of the rest!



## FCC News

Courtesy of the American Radio Relay League

Newington, CT, April 16<sup>th</sup>, 2019 – ARRL and the FCC have signed a *Memorandum of Understanding (MOU)* that paves the way to implement the new and enhanced Volunteer Monitor program. The memorandum establishes the Volunteer Monitors as a replacement for the Official Observers (OO) program. Current OOs have been encouraged to participate in the new program.

"We are excited by the opportunity to codify our partnership with the FCC and to work together to achieve our mutual interests of protecting the integrity of our Amateur Radio bands," said ARRL President Rick Roderick K5UR. "This *Memorandum of Understanding* will serve as the foundation for a new level of partnership on this very important issue."

ARRL has contracted with retired FCC special counsel and former Atlantic Division Vice Director Riley Hollingsworth K4ZDH, to oversee the ARRL's role in the development and implementation of the Volunteer Monitor program.

Approved by the ARRL Board of Directors at its July 2018 meeting, the new Volunteer Monitor program is a formal agreement between the FCC and ARRL in which volunteers trained and vetted by the ARRL will monitor the airwaves and collect evidence that can be used both to correct misconduct or recognize exemplary on-air operation. Cases of flagrant violations will be referred to the FCC by the ARRL for action in accordance with FCC guidelines.

The intent of this program is to re-energize enforcement efforts in the Amateur Radio bands. It was proposed by the FCC in the wake of several FCC regional office closures and a reduction in field staff.

"Under this program, the FCC will give enforcement priority to cases developed by the Volunteer Monitor program, without the delay of ARRL having to refer cases through the FCC online complaint process," Hollingsworth said.

Hollingsworth has identified three phases to the program: Development, Solicitation and Training, and Implementation.

- The Development phase will include drafting a mission statement, clearly defining the ARRL's and FCC's requirements and needs as part of the program, writing a job description for volunteer monitors, and developing a training manual for volunteers. #

- The Solicitation and Training phase will involve identifying the geographic locations where volunteer monitors will be most needed, soliciting applications and guidance from Section Managers in reviewing applicants. (Those currently volunteering as Official Observers are invited to apply for appointment as Volunteer Monitors.) #

The Implementation phase will involve having the volunteers provide field reports to ARRL, with staff offering guidance to volunteers to ensure that the information collected meets requirements for FCC enforcement action. #

Hollingsworth has committed to FCC and ARRL officials to ensure the adequacy of training for the new positions, to review the quality and utility of Volunteer Monitor submissions to the FCC for enforcement actions, and to advocate for rapid disposition of cases appropriately submitted to the FCC.

ARRL officials estimate that within 6 to 9 months the first Volunteer Monitors will be in place and ready to begin their duties.

### US Amateurs by Class as of April 29<sup>th</sup>, 2019:

Novice	9,572
Technician	414,871
General	188,562
Advanced	43,530
Extra	153,752
Club	12,704
<b>Total</b>	<b>822,991</b>
All-Time High	02/11/2019 825,088
Last 90 Days:	
New Amateurs	10,970
Callsign Changes	3,218
Class Changes	4,705
No Longer Licensed	10,290
All Updates (*)	40,934
(*) Includes renewals, address changes, etc.	

Information gathered from FCC Daily Updates, courtesy of [Hamdata.com](http://Hamdata.com)

**Has Roadway found the tower yet?**

## 2019 Pittsburgh Marathon May 5<sup>th</sup>

Over 150 Amateur Radio operators are needed for the 2019 Pittsburgh Marathon on May 5<sup>th</sup>, to help provide support for the Marathon Medical Staff, over 35,000 runners, and many more times spectators. Operators are needed at aid stations, mile markers, shadows for medical officials, and others. More information is available at <http://marathon.central.org> which includes a link to the [volunteer registration system](#), or contact Jeff Hutzleman N3NHS [jhutz@cmu.edu](mailto:jhutz@cmu.edu) (412)401-8348



## 2019 Race for the Cure May 12<sup>th</sup>

Amateur Radio Operators are needed to help provide communications for the 27<sup>th</sup> Annual Susan G. Komen Race for the Cure on Mother's Day, May 12<sup>th</sup>, 2019.

Operators are needed for fixed points along the course, and to shadow the race officials.

The race begins at 6:30 AM, and will take place at Flagstaff Hill in Schenley Park.

If you are interested in volunteering, please contact Bob Mente NU3Q at (412) 279-9016, or [NU3Q@Verizon.net](mailto:NU3Q@Verizon.net)



## Butler County ARA Swapfest 2019

Sunday, September 8<sup>th</sup>, 2018, 8:00 AM—3:00 PM

Grounds Open at 6 AM for Vendors & Tailgaters

Unionville Volunteer Fire Department

102 Mahood Road (at Route 8 North), Butler, PA 16001

Talk-in on 147.360 PL 131.8

Admission \$5

More Information at <http://www.w3udx.org>



## 65<sup>th</sup> Annual BreezeShooters Hamfest & ARRL WPA Section Convention



Saturday, June 1<sup>st</sup>, 2019 8:00 AM to 5:00 PM

& Sunday, June 2<sup>nd</sup>, 2019 8:00 AM to 2:00 PM

at the Big Butler Fairgrounds,

1127 New Castle Road (US 422), Prospect PA 16052

\$10 Per Person Admission Donation Good for Both Days

Indoor Tables & Tailgate / Flea Market Spaces Available

Flea Market spaces \$15 per space, Good for Both Days

Fairgrounds open at 5 AM Saturday & Sunday for Vendor & Tailgate Setup

14 Main Prizes

Half Hour Prizes (based on Admission Tickets)

Indoor Tables \$25 per table and may be reserved by calling (412) 389-1739

Or mail reservations to PO Box 101018, Pittsburgh PA 15237

Table reservation cut-off date May 20<sup>th</sup>, 2019

Download directions & the latest flyer from the BreezeShooters Web Site at

<http://www.breezeshooters.net> or email [hamfest@breezeshooters.org](mailto:hamfest@breezeshooters.org)





# WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

## Membership Application, New or Renewal



I would like to join WASH! I am interested in the following type of membership: ☐ **New Membership** ☐ **Membership Renewal**

(check quarter  
(check one) ) →

	<input type="checkbox"/> 1st Qtr Jan-Mar	<input type="checkbox"/> 2nd Qtr Apr-Jun	<input type="checkbox"/> 3rd Qtr Jul-Sept	<input type="checkbox"/> 4th Qtr Oct-Dec
<input type="checkbox"/> (F1) Full Membership:	\$20.00	\$15.00	\$10.00	\$5.00
<input type="checkbox"/> (F2) Full Membership < 18 or > 65 yrs of age:	\$10.00	\$7.50	\$5.00	\$2.50
<input type="checkbox"/> (A1) Associate Membership:	\$10.00	\$7.50	\$5.00	\$2.50

☐ (FM1) Family Membership (\$3.00 x No. of household family members): \$ \_\_\_\_\_

Name(s): \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Email Address: \_\_\_\_\_

New Members Only:

☐ I do NOT want to be added to the Club E-Mail Reflector

☐ I do NOT want to be added to the Electronic Newsletter Mailing List

[If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out]

Signature: \_\_\_\_\_

Call Sign: \_\_\_\_\_

License Class: \_\_\_\_\_

Expires On: \_\_\_\_\_

Work Phone: \_\_\_\_\_

Birthday: \_\_\_\_\_

ARRL Member? ☐ Yes ☐ No Family ARRL Member? ☐ Yes ☐ No

Date: \_\_\_\_\_

Amount Enclosed: \$ \_\_\_\_\_

*N3RDV has requested that all membership requests and renewals include an application so that his information is up to date*

Please make your check or money order payable to the club treasurer, Mark Stabryla.  
The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals.  
Please return completed membership form along with check/money order to the club treasurer or mail to:

WIRELESS ASSOCIATION OF SOUTH HILLS, INC.  
c/o Mark Stabryla N3RDV, VP/Treasurer  
1120 McKnight Drive  
Bethel Park, PA 15102-2456



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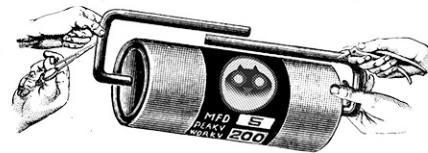
The Daily DX, 3025 Hobbs Road,  
Glenwood, MD 21738 Phone: 301-854-5650



**Arghh!**  
What Mightst We Draw For Ye, Matey?



**HANDMADE BY GNOMES.**

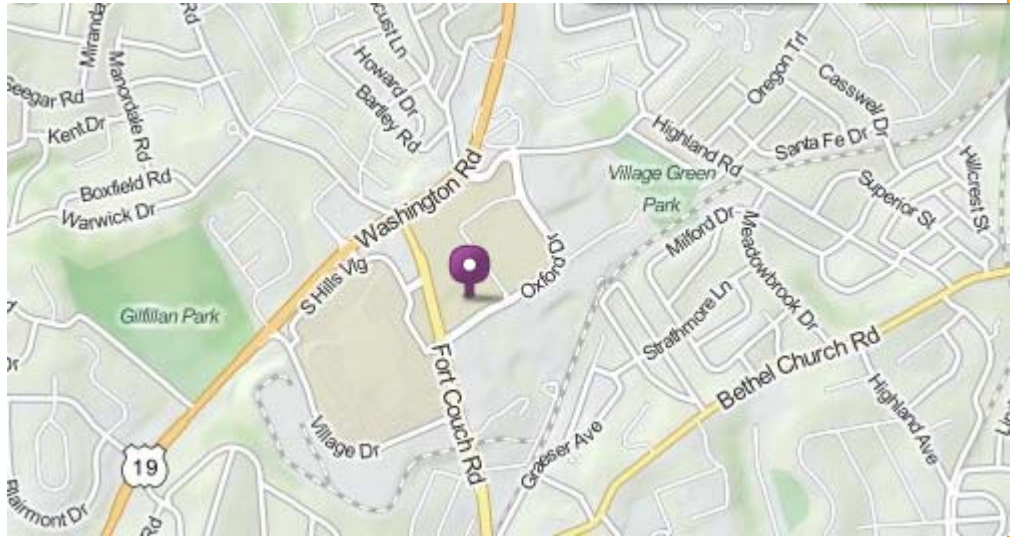
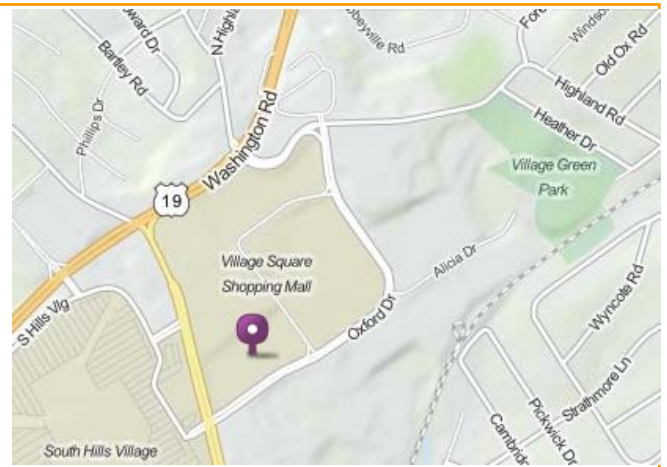


# 2019 WASH Meeting Location

## St. Clair Hospital Outpatient Center Conference Room

2000 Oxford Drive, Bethel Park PA 15102

Adjacent to Village Square Mall, across Ft. Couch Road from  
South Hills Village Mall, just off of US Route 19



## The WASHRag

Wireless Association of South Hills, Inc.

Ron Notarius W3WN, Editor

3395 Rosewood Drive

Castle Shannon, PA 15234-2546



N3SH / WA3SH  
NP2SH/B

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